UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

000513

7590

04/06/2004

WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W. SUITE 800 WASHINGTON, DC 20006-1021

EXAMINER		
DUONG	THOI V	
ART UNIT	PAPER NUMBER	

2871 DATE MAILED: 04/06/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052,773	01/23/2002	Yoshiie Matsumoto	2002 0062A	4212

TITLE OF INVENTION: METHOD AND DEVICE FOR CONNECTING DISPLAY PANEL SUBSTRATES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/06/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (703) 746-4000

INSTRUCTIONS: This for appropriate. All further cor indicated unless corrected by maintenance fee notification	below or directed otherwise	mitting the ISSU atent, advance ord in Block I, by (a)	E FEE and PUBL ders and notification specifying a new	ICATION FEE (if requestion of maintenance fees correspondence address	uired). Blocks 1 through 4 s will be mailed to the current s; and/or (b) indicating a sep	chould be completed where correspondence address as arate "FEE ADDRESS" fo
	E ADDRESS (Note: Legibly mark-up	with any corrections or	use Block 1)	Note: A certificate o	f mailing can only be used f	or domestic mailings of the
				Fee(s) Transmittal. T	his certificate cannot be used al paper, such as an assignm	for any other accompanying
	590 04/06/2004			have its own certifica	te of mailing or transmission.	
WENDEROTH, 1 2033 K STREET N SUITE 800 WASHINGTON, I		L.L.P.		I hereby certify that t	ertificate of Mailing or Tran this Fee(s) Transmittal is beir with sufficient postage for fi ill Stop ISSUE FEE address PTO, on the date indicated be	g denosited with the United
,						(Depositor's name)
						(Signature)
						(Date)
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DUONG	, THOI V	2871		349-058000		
Address form PTO/SB/12 "Fee Address" indicati PTO/SB/47; Rev 03-02 (Number is required. 3. ASSIGNEE NAME AND	on (or "Fee Address" Indicate or more recent) attached. Use PRESIDENCE DATA TO BE an assignee is identified beld to the USPTO or is being st	ion form of a Customer E PRINTED ON T ow, no assignee da ubmitted under ser	agents OR, alte firm (having as agent) and the attorneys or ag will be printed. THE PATENT (printed at a will appear on parate cover. Comp	• • •	of a single attorney or 2 tered patent ed, no name 3 assignee data is only approprior a substitute for filing an assignee assignee data is only approprior a substitute for filing an assignee data is only approprior a substitute for filing an assignee data is only approprior a substitute for filing an assignee data is only approprior a substitute for filing an assignee.	ate when an assignment ha
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(Authorized Signature)		(Date)				
other than the applicant; interest as shown by the re-	d Publication Fee (if require a registered attorney or age cords of the United States Pa	nt; or the assigne tent and Trademarl	e or other party i k Office.	n		
completed application for	tion is required by 37 CFR by the public which is to filly is governed by 35 U.S.C. I les to complete, including gam to the USPTO. Time will the amount of time you rhis burden, should be sent to Office, U.S. Department CEND FEES OR COMPLE for Patents, Alexandria, Virg	thering, preparing,	, and submitting the	ne ·		

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WASHINGTON, DC 20006-1021			2871	

DATE MAILED: 04/06/2004

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 59 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 59 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)				
•	10/052,773	MATSUMOTO, YOSHIIE				
Notice of Allowability	Examiner	Art Unit				
	Thoi V Duong	2871				
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS				
1. This communication is responsive to <u>03/17/2004</u> .						
2. The allowed claim(s) is/are 22-30.						
3. $\boxed{\ }$ The drawings filed on $\underline{23 \ January \ 2002}$ are accepted by the	e Examiner.					
 Acknowledgment is made of a claim for foreign priority un a)	been received. been received in Application No cuments have been received in this in	5				
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.						
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 						
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendn	ė .				

DETAILED ACTION

1. This office action is in response to the Amendment filed March 17, 2004.

Accordingly, claims 1-21 were cancelled. Claims 22-30 are currently pending in this application.

Allowable Subject Matter

2. Claims 22-30 are allowed.

The following is an examiner's statement of reasons for allowance: none of the prior art of record fairly suggests or shows all of the limitations as claimed. Specifically,

Re claims 22, 25 and 28, none of the prior art of record discloses, in combination with other limitations as claimed, a method for connecting display panel substrates comprising inserting a spacer having a plurality of spacer elements layered together in a mutually separable fashion as recited in claim 22, or a spacer having an additional auxiliary spacer element appended to said spacer as recited in claims 25 and 28, in a waste region between first and second substrates for adjusting the cell gap.

The most relevant references, USPN 5,263,888 of Ishikita et al. (US'888) and USPN 5,307,190 of Wakita et al. (US'190), fail to disclose or suggest a spacer having an additional auxiliary spacer element or a plurality of spacer elements for adjusting the cell gap during manufacturing process. The US'888 only discloses an assembly spacer member 5a, 5b for initially spacing the two substrates as shown in Fig. 3(b). Meanwhile, the US'190 discloses using wedges 61 for regularly spacing the cell gap as shown in Fig. 6.

Application/Control Number: 10/052,773

Art Unit: 2871

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thoi V. Duong whose telephone number is (571) 272-

2292. The examiner can normally be reached on Monday-Friday from 8:30 am to 4:30

pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert Kim, can be reached at (571) 272-2293.

Thoi Duong Gue

03/25/2004

ROWERT H. KIM SUPERVISORY PATENT EXAMINE

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Page 3